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[Xinran Wang, Yoon-Chan Jhi, Sencun Zhu, Peng Liu](#)

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Along with the burst of open source projects, software theft (or plagiarism) has become a major threat to the healthiness of software industry. Software birthmark, which represents the unique fingerprint of a program, can be used for software ...

**Keywords:** dynamic analysis, software birthmark, software plagiarism, software theft

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[Jedidiah R. Crandall, Gary Wassermann, Daniela A. S. de Oliveira, Zhendong Su, S. Felix V.](#)

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Worms, viruses, and other malware can be ticking bombs counting down to a specific time when they will, for example, delete files or download new instructions from a public web server. We present a new machine-based analysis technique to ...

**Keywords:** malware, virtual machines, worms

Also published in:

 October 2006 **SIGOPS Operating Systems Review** Volume 40 Issue 5

 October 2006 **SIGARCH Computer Architecture News** Volume 34 Issue 5

 November 2006 **SIGPLAN Notices** Volume 41 Issue 11

**3** [AWE: improving software analysis through modular integration of static and dynamic analysis](#)
[Ruben E. Brown, Roger Khazan, Michael Zhivich](#)


 June 2007 **PASTE '07**: Proceedings of the 7th ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering

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AWE is a prototype system for performing analysis of x86 executables in the absence of debugging information. It provides a modular infrastructure for integrating static and dynamic analysis into a single workflow. One of the major challenges ...

**Keywords:** dynamic analysis, malicious software analysis, static analysis**4** [JavaScript instrumentation for browser security](#) [Dachuan Yu, Ajay Chander, Nayeem Islam, Igor Serikov](#)January 2007 **POPL '07**: Proceedings of the 34th annual ACM SIGPLAN-SIGACT symposium on programming languages**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (706.68 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citec](#)**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 306, Downloads (Overall): 112

It is well recognized that JavaScript can be exploited to launch browser-based security attacks. This paper presents a battle such attacks using program instrumentation. Untrusted JavaScript code goes through a series of operations which identifies relevant operations, ...

**Keywords:** JavaScript, edit automata, program instrumentation, web browser

Also published in:


January 2007 **SIGPLAN Notices** Volume 42 Issue 1**5** [A qualitative assessment of the efficacy of UML diagrams as a form of graphical documentation for program understanding](#) [Scott Tilley, Shihong Huang](#)October 2003 **SIGDOC '03**: Proceedings of the 21st annual international conference on Document Analysis and Recognition**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (274.99 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citec](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 104, Downloads (Overall): 181

Graphical documentation is often characterized as an effective aid in program understanding. However, it is an open question exactly which types of graphical documentation are most suitable for which types of understanding tasks (and in which contexts).

**Keywords:** Unified Modeling Language (UML), assessment, graphical documentation, program understanding**6** [Learning to Detect and Classify Malicious Executables in the Wild](#)[J. Zico Kolter, Marcus A. Malooli](#)December 2006 **The Journal of Machine Learning Research** , Volume 7**Publisher:** MIT PressFull text available:  Pdf (242.79 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citec](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 122, Downloads (Overall): 391

We describe the use of machine learning and data mining to detect and classify malicious executables that appear in the wild. We gathered 1,971 benign and 1,651 malicious executables and encoded them using  $n$ -grams of byte ...

## 7 Feature selection and policy optimization for distributed instruction placement using machine learning

 Katherine E. Coons, Behnam Robatmili, Matthew E. Taylor, Bertrand A. Maher, Doug Burger  
October 2008 **PACT '08: Proceedings of the 17th international conference on Parallel architectures and techniques**

**Publisher:** ACM  [Request Permissions](#)

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Communication overheads are one of the fundamental challenges in a multiprocessor system. As the number of processors on a chip increases, communication overheads and the distribution of computation become increasingly important performance ...

**Keywords:** compiler heuristics, genetic algorithms, instruction scheduling, machine learning

## 8 Passive network forensics: behavioural classification of network hosts based on communication patterns

 John McHugh, Ron McLeod, Vagishwari Nagaonkar  
April 2008 **SI GOPS Operating Systems Review**, Volume 42 Issue 3

**Publisher:** ACM

Full text available:  Pdf (2.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 197, Downloads (Overall): 37

Passive monitoring of the data entering and leaving an enterprise network can support security and forensic objectives. We have developed analysis techniques for NetFlow data that use behavioural patterns to confirm individual host roles and ...

**Keywords:** behaviour, forensic, intrusion detection, intrusion prevention, network, on-line, peer-to-peer, propagation prevention, security, traffic, virus, worm

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